

MALLINCKRODT INC -- SODIUM DICHROMATE -- 6810-00-890-2052

===== Product Identification =====

Product ID:SODIUM DICHROMATE

MSDS Date:06/04/1989

FSC:6810

NIIN:00-890-2052

MSDS Number: BMTNQ

=== Responsible Party ===

Company Name:MALLINCKRODT INC

Address:PARIS BYPASS

Box:M

City:PARIS

State:KY

ZIP:40361

Country:US

Info Phone Num:606-987-7000

Emergency Phone Num:314-982-5000

CAGE:62910

=== Contractor

Identification ===

Company Name:MALLINCKRODT SPECIALTY CHEMICALS CO

Address:222 RED SCHOOL LANE

Box:City:PHILLIPSBURG

State:NJ

ZIP:08865

Country:US

Phone:908-859-2151

CAGE:62910

===== Composition/Information on Ingredients =====

Ingred Name:SODIUM DICHROMATE DIHYDRATE

CAS:7789-12-0

RTECS #:HX7750000

Other REC Limits:CEILING 50UG/M3/15M

OSHA PEL:0.1 MG/M3 CEILING

ACGIH TLV:0.05 MG/M3 CR(IV)

Ingred Name:SODIUM BICHROMATE (SARA III)

CAS:10588-01-9

RTECS #:HX7700000

Other REC L

imits:NONE SPECIFIED
OSHA PEL:0.1 PPM CRO3;CEILING
ACGIH TLV:0.05 MG CR/M3; 9192
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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===== Hazards Identification =====

LD50 LC50 Mixture:ORAL RAT LD50: 50 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:EYE: CORROSIVE. MAY CAUSE
CONJUNCTIVITIS IN CONTACT WITH THE EYE. SKIN: REPEATED SKIN CONTACT
MAY LEAD TO AN IN
CAPACITATING DERMATITIS AND SLOW HEALING ULCERS.
INHALATION: REPEATED INHALATION MAY CAUSE PERFORATION OF THE NASAL
SEPTUM. BICHROMATES ARE PRIMARILY TOXIC TO THE KIDNEYS, LIVER AND
GASTROINTESTINAL TRACT.
Explanation of Carcinogenicity:NIOSH CRITERIA DOCUMENT RECOMMENDATION:
OCCUPATIONAL EXPOSURE TO CR(IV): 25 UG/M3 (TWA) CEILING LIMIT: 50
UG/M3/15M.
Effects of Overexposure:INHALATION: SEVERE IRRITANT. MAY PRODUCE NASAL
IRRITATION AND BURNING SENSATION IN THE THROAT. IN
GESTION: SYMPTOMS
MAY INCLUDE ABDOMINAL PAIN, DIZZINESS, VOMITING, INTENSE THIRST.
SKIN: MAY PRODUCE SKIN RASHES AND ULCERS. EYE: MAY CAUSE
CONJUNCTIVITIS.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN OR
EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY, OR RESPIRATORY FUNCTION
MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

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===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS
DIFFICULT,
GIVE OXYGEN. CALL A PHYSICIAN. INGESTION: INDUCE VOMITING
IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN
THE THROAT. CALL A PHYSICIAN IMMEDIATELY. SKIN: REMOVE
CONTAMINATED CLOTHING. WASH SKIN WITH PLENTY OF WATER. GET MEDICAL
ATTENTION IMMEDIATELY. EYE: WASH EYES WITH PLENTY OF WATER. GET
MEDICAL ATTENTION IMMEDIATE.

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===== Fire Fighting Measures =====

Extinguishing Media:USE ANY MEANS SUITABLE FOR EXTIN

GUISHING

SURROUNDING FIRE. WATER SPRAY MAY BE USED TO KEEP EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND.

Unusual Fire/Explosion Hazard:NOT COMBUSTIBLE, BUT SUBSTANCE IS A STRONG OXIDIZER AND ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION. MAY EXPLODE WHEN SHOCKED.

===== Accidental Release

Measures =====

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION FROM CORROSIVES. CAREFULLY SWEEP UP AND PLACE IN A METAL CONTAINER FOR DISPOSAL. AVOID DUST DI SPERSAL. FLUSH AREA WITH NEUTRALIZER TOTHE SEWER.

Neutralizing Agent:DILUTE FERROUS SULFATE OR SODIUM SULFITE SOLUTION.

===== Handling and Storage =====

Handling and Storage Precautions:PROTE CT AGAINST PHYSICAL DAMAGE. STORE IN DRY LOCATION SEPARATE FROM COMBUSTIBLE, ORGANIC OR OTHER OXIDIZABLES. AVOID STORAGE ON WOOD FLOORS.

Other Precautions:REMOVE AND DISPOSE OF ANY SPILLED DICHROMATES; DO NOT RETURN TO ORIGINAL CONTAINERS. WEAR SPECIAL PROTECTIVE EQUIPMENT FOR MAINTAINENCE BREAK-IN OR WHERE EXPOSURE MAY EXIST. WASH HANDS, FACE FOREARMS AND NECK WHEN EXITING RESTRICTED AREA.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF THE TLV IS EXCEEDED, A DUST/ MIST RESPIRATOR WITH CHEMICAL GOGGLES MAY BE WORN, IN GENERAL, UP TO TEN TIMES THE TLV. CONSULT RESPIRATOR SUPPLIER FOR LIMITATIONS.

Ventilation:A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS (NEOPRENE)

Eye Protection:CHEMICAL SAFETY GOGGLES

Other Protective Equipment:IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, LAB. COAT, APRON OR COVERALLS.

Work Hygi

enic Practices:SHOWER, DISPOSE OF OUTER CLOTHING, CHANGE TO CLEAN GARMENTS AT THE END OF THE DAY. AVOID CROSS-CONTAMINATION OF CLOTHES.

Supplemental Safety and Health
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

===== Physical/Chemical Properties =====

HCC:D1

Boiling Pt:B.P. Text:752F,400C

Melt/Freeze Pt:M.P/F.P Text:675F,357C

Decomp Temp:Decomp Text:752F,400C

Vapor Pres:0 @20C

Spec Gravity:2.35 @25C

Solubility in Water:APPRECIABLE

Appearance and Odor:ORANGE

-RED CRYSTALS OR GRANULES, ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

HYDRAZINE, ACETIC ANHYDRIDE, ETHANOL, TRINITROTOLUENE, HYDROXYLAMINE, STRONG ACIDS, OXIDIZABLE MATERIALS.

Stability Condition to Avoid:STRONG OXIDANTS MAY EXPLODE WHEN SHOCKED, OR IF EXPOSED TO HEAT, FLAME, OR FRICTION.

Hazardous Decomposition Products:OXIDES OF CHROMIUM.

===== Disposal Considerations =====

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.

CONTAINERIZED SOLIDS MAY BE SENT TO A RCRA APPROVED HAZARDOUS WASTE DISPOSAL FACILITY. NEUTRALIZE REMAINING TRACES WITH SODA ASH.

HEXAVALENT CHROMIUM IN SOLUTION REDUCED TO TRIVALENT CHROMIUM IS PRECIPITATED.

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